

# Data at Deere



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<p><u>Part I: Overview of Business</u></p> <ul style="list-style-type: none"><li>•John Deere ISG</li><li>•Precision Agriculture</li></ul>	<p><u>Part II: Job Specifics</u></p> <ul style="list-style-type: none"><li>•Reliability Engineer</li><li>•Responsible for the analytics of machine failures, repairs, and costs</li></ul>
<p><u>Part III: Introduce the Problem</u></p> <ul style="list-style-type: none"><li>•Students will be provided fictional information about failures, repairs, and costs.</li><li>•The students will have to examine the data to come up with a conclusion to present to “management” (the teacher).</li></ul>	<p><u>Part IV: Background</u></p> <ul style="list-style-type: none"><li>•Excel Background or R if there is time</li><li>•Data Visualization Tools</li><li>•Summarizing and Cleaning Data</li></ul>
<p><u>Part V: Business Solution</u></p> <ul style="list-style-type: none"><li>•Created an interactive data visualization tool so that the data could be teased for information based on who was looking at it.</li></ul>	<p><u>Part VI: Student Solutions</u></p> <ul style="list-style-type: none"><li>● Failure Rate</li><li>● Time to Repair</li><li>● Labor Costs</li><li>● Part Costs</li><li>● Ratio between Important Variables</li></ul>